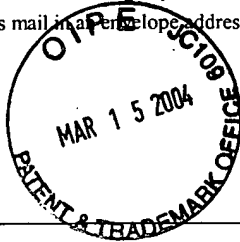


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PATENT
Attorney Docket No.: 015114-067800US
Client Reference No.: A1078

TOWNSEND and TOWNSEND and CREW LLP

By: Edward Masinas
EDWARD MASINAS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Simar Maangat

Application No.: 10/645,788

Filed: August 20, 2003

For: TECHNIQUES FOR REDUCING
LEAKAGE CURRENT IN ON-CHIP
IMPEDANCE TERMINATION
CIRCUITS

Examiner: To Be Assigned

Art Unit: 2855

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of Reference Nos. 54-62 are enclosed herewith. Reference Nos. 1-53 are not enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

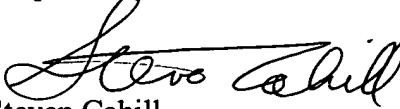
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement.

However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Steven Cahill
Reg. No. 44,578

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
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**TRANSMITTAL
FORM**

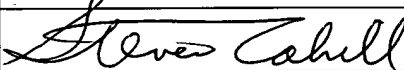
to be used for all correspondence after initial filing)

<p>Application Number</p> <p>Filing Date</p> <p>First Named Inventor</p> <p>Art Unit</p> <p>Examiner Name</p>		10/645,788	
		August 20, 2003	
		Maangat, Simar	
		2855	
		To Be Assigned	
Total Number of Pages in This Submission	7	Attorney Docket Number	015114-067800US

ENCLOSURES (Check all that apply)


<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard, PTO/SB/08A, 08B, 9 reference copies
<p>Remarks</p> <p>The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.</p>		

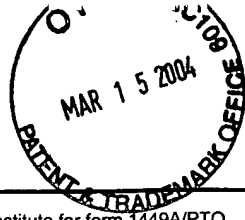
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP Steven Cahill	Reg. No. 44,578
Signature		
Date	March 12, 2004	

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		Application Number	10/645,788
		Filing Date	August 20, 2003
		First Named Inventor	Maangat, Simar
		Art Unit	2855
		Examiner Name	To Be Assigned
Sheet 1 of 3	Attorney Docket Number	015114-067800US	

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	0001	US-4,719,369	01-12-1988	Asano et al.	
	0002	US-4,954,729	09-04-1990	Urai	
	0003	US-5,111,081	05-05-1992	Atallah	
	0004	US-5,134,311	07-28-1992	Biber et al.	
	0005	US-5,164,663	11-17-1992	Alcorn	
	0006	US-5,179,300	01-12-1993	Rolandi et al.	
	0007	US-5,359,235	10-25-1994	Coyle et al.	
	0008	US-5,374,861	12-20-1994	Kubista	
	0009	US-5,592,510	01-07-1997	Van Brunt et al.	
	0010	US-5,602,494	02-11-1997	Sundstrom	
	0011	US-5,623,216	04-22-1997	Penza et al.	
	0012	US-5,726,582	03-10-1998	Hedberg	
	0013	US-5,726,583	03-10-1998	Kaplinsky	
	0014	US-5,764,080	06-09-1998	Huang et al.	
	0015	US-5,864,715	01-26-1999	Zani et al.	
	0016	US-5,939,896	08-17-1999	Hedberg	
	0017	US-5,970,255	10-19-1999	Tran et al.	
	0018	US-6,008,665	12-28-1999	Kalb et al.	
	0019	US-6,026,456	02-15-2000	Ilkbahar	
	0020	US-6,037,798	03-14-2000	Hedberg	
	0021	US-6,049,255	04-11-2000	Hagberg et al.	
	0022	US-6,064,224	05-16-2000	Esch, Jr. et al.	
	0023	US-6,087,847	07-11-2000	Mooney et al.	
	0024	US-6,097,208	08-01-2000	Okajima et al.	
	0025	US-6,100,713	08-08-2000	Kalb et al.	
	0026	US-6,118,310	09-12-2000	Esch, Jr.	
	0027	US-6,147,520	11-14-2000	Kothandaraman et al.	
	0028	US-6,154,060	11-28-2000	Morriss	
	0029	US-6,157,206	12-05-2000	Taylor et al.	
	0030	US-6,181,157 B1	01-30-2001	Fiedler	
	0031	US-6,236,231 B1	05-22-2001	Nguyen	
	0032	US-6,252,419 B1	06-26-2001	Sung et al.	
	0033	US-6,329,836 B1	12-11-2001	Drost et al.	

Examiner Signature		Date Considered	
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			Application Number	10/645,788	
			Filing Date	August 20, 2003	
			First Named Inventor	Maangat, Simar	
			Art Unit	2855	
			Examiner Name	To Be Assigned	
Sheet	2	of	3	Attorney Docket Number	015114-067800US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	0034	US-6,356,106 B1	03-12-2002	Greeff et al.	
	0035	US-6,362,644 B1	03-26-2002	Jeffrey et al.	
	0036	US-6,366,128 B1	04-02-2002	Ghia et al.	
	0037	US-6,411,126 B1	06-25-2002	Tinsley et al.	
	0038	US-6,414,512 B1	07-02-2002	Moyer	
	0039	US-6,424,169 B1	07-23-2002	Partow et al.	
	0040	US-6,433,579 B1	08-13-2002	Wang et al.	
	0041	US-6,445,245 B1	09-03-2002	Schultz et al.	
	0042	US-6,448,813 B2	09-10-2002	Garlepp et al.	
	0043	US-6,466,063 B2	10-15-2002	Chen	
	0044	US-6,586,964 B1	07-01-2003	Kent et al.	
	0045	US-6,590,413 B1	07-08-2003	Yang	
	0046	US-6,603,329 B1	08-05-2003	Wang et al.	
	0047	US-6,639,397 B2	10-28-2003	Roth et al.	
	0048	US-6,642,741 B2	11-04-2003	Metz et al.	
	0049	US 2002/0010853 A1	01-24-2002	Trimberger et al.	
	0050	US 2002/0060602 A1	05-23-2002	Ghia et al.	
	0051	US 2002/0101278 A1	08-01-2002	Schultz et al.	
	0052	US 2003/0062922 A1	04-03-2003	Douglass et al.	
	0053	US 2004/0008054 A1	01-15-2004	Lesea et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
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				Application Number	10/645,788
				Filing Date	August 20, 2003
				First Named Inventor	Maangat, Simar
				Art Unit	2855
				Examiner Name	To Be Assigned
Sheet	3	of	3	Attorney Docket Number	015114-067800US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	0054	Altera, Apex 20K "Programmable Logic Device Family," Altera Corporation, Ver. 1.1, May 2001	
	0055	Altera, Apex II "Programmable Logic Device Family," Altera Corporation, Ver. 1.1, May 2001	
	0056	Bendak, M. et al. (1996). "CMOS VLSI Implementation of Gigabyte/second computer network links," Dept. of Electrical and Computer Engineering, University of California at San Diego, La Jolla, CA 92093-0407, IEEE International Symposium on Circuits and Systems pp.269-272.	
	0057	Boni, A. et al. (2001). "LVDS I/O Interface for Gb/s-per-Pin Operation in 0.35-um CMOS," IEEE Journal of Solid-State Circuits, 36(4):706-711.	
	0058	Esch and Manley, Theory and Design of CMOS HSTL I/O Pads, The Hewlett Packard Journal, Aug, 1998	
	0059	Xilinx, "Spartan-3 1.2V FPGA Family: Functional Description," Xilinx, DS099-2 (v1.2) July 11, 2003	
	0060	Xilinx, "Virtex-II 1.5V Field Programmable Gate Arrays," Xilinx, DSO3102 (v1.5), Apr. 2, 2001	
	0061	Xilinx, "Virtex-II Platform FPGAs: Detailed Description," Xilinx, DS031-2 (v3.1) October 14, 2003	
	0062	Xilinx, "Virtex-II Pro Platform FPGAs: Functional Description," Xilinx, DS083-2 (v2.9) October 14, 2003	

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